

IN THE CLAIMS:

Please cancel Claims 1-15 and add new claims 16-31, as follows:

AMENDMENTS TO THE CLAIMS:

1-15 (canceled)

16. (new) A control device for use in a waste-air fume extraction device, comprising:
a room;
a cooking device in said room;
a fan arranged in said room;
a pressure difference detection device for detecting the pressure difference (P_d) between the inside pressure (P_i) in said room and the outside pressure (P_a) in the area outside said room; and
a control device for controlling the air conveying capacity of the fume extraction device depending on the detected pressure difference (P_d).
17. (new) A fume extraction device, comprising:
a fan for extracting the fume-laden air from a room containing a cooking device and conveying the extracted air to an area outside said room;
a pressure difference detection device for detecting the pressure difference (P_d) between the inside pressure (P_i) in said room and the outside pressure (P_a) in said area outside said room; and
a control device for controlling the air conveying capacity of said fan depending on the detected pressure difference (P_d).
18. (new) The device according to claim 17, including said pressure difference detection device having an inside pressure sensor and an outside pressure sensor and a comparator device for comparing the detected inside pressure and the detected outside pressure.
19. (new) The device according to claim 17, including said pressure difference detection device connected to said room via a first sensor line and connected to said area outside said room by means of a second sensor line.
20. (new) The device according to claim 17, including said pressure difference detection device arranged in at least one of said room at the fume extraction

device, said area outside said room or partly in said room and partly in said area outside said room.

21. (new) The device according to claim 17, including said pressure difference detection device includes a membrane which is connected on one side by means of a first sensor line to said room and is connected on the other side by means of a second sensor line to said area outside said room.
22. (new) The device according to claim 21, including at least one of said first and said second sensor line is a hose line.
23. (new) The device according to claim 21, including a duct provided for guiding the fume-laden air into said area outside said room and said second sensor line is laid at least one of along or in said duct from said room into said area outside said room.
24. (new) The device according to claim 17, including said control device controls said fan such that at least one of said inside pressure (P_i) with respect to the outside pressure (P_a) does not fall below a pre-determined pressure difference threshold (P_d) of preferably substantially about 4 Pascal, said fan is switched off if said inside pressure (P_i) with respect to said outside pressure (P_a) falls below a pre-determined pressure difference threshold (P_d) of preferably substantially about 4 Pascal and that said fan is switched on if said inside pressure (P_i) with respect to said outside pressure (P_a) increases above a pre-determined pressure difference threshold (P_d).
25. (new) The device according to claim 24, including said control device controls said fan in a control loop.
26. (new) The device according to claim 17, including a warning signal issuing device is provided which issues a warning signal if said inside pressure falls below a pressure difference threshold (P_d) of preferably substantially about 4 Pascal.
27. (new) The device according to claim 26, including said output warning signal is at least one of an audible warning signal preferably in the form of an interrupted warning tone, and a visual signal preferably in the form of a flashing red light and

a visual signal in the form of a display "open window" or a display "ventilate room".

28. (new) A method for operating a fume extraction device including a fan for extracting the fume-laden air from a room containing a cooking device and conveying the extracted air to an area outside the room, comprising:
detecting the pressure difference (P_d) between the inside pressure (P_i) in the room and outside pressure (P_a) in the area outside said room; and
controlling the air conveying capacity of the fan depending on said detected pressure difference (P_d).
29. (new) The method according to claim 28, including controlling said conveying capacity of said fan such that said inside pressure (P_i) with respect to said outside pressure (P_a) does not fall below a pre-determined pressure difference threshold (P_d) of preferably substantially about 4 Pascal.
30. (new) The method according to claim 29, including switching off said fan if said inside pressure (P_i) with respect to said outside pressure (P_a) falls below a pre-determined pressure difference threshold (P_d) of preferably substantially about 4 Pascal and switching off said fan if said inside pressure (P_i) with respect to said outside pressure (P_a) is above said pre-determined pressure difference threshold (P_d).
31. (new) The method according to claim 28, including issuing a warning signal if said inside pressure (P_i) with respect to said outside pressure (P_a) falls below a pre-determined pressure difference threshold (P_d) of preferably substantially about 4 Pascal and switching off said warning signal if said inside pressure (P_i) with respect to said outside pressure (P_a) increases above said pre-determined pressure difference threshold (P_d).